

# SAFETY DATA SHEET

According to Regulation (EU) 2020/878  
**LIQUID HERB FEED**

Date of Issue: 07/09/2023  
 Revision: 06/02/2024  
 Version No. 1.1

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- 1.1 Product Identifier:** **LIQUID HERB FEED**
- 1.2 Relevant uses of the substance or mixture and uses advised against:**  
 Fertiliser for retail sale
- 1.3. Details of the supplier of the safety data sheet**  
 GB/NI Vitax Limited, Owen Street, Coalville LE67 3DE  
 IRL Vitax (Ireland) Ltd, Block 3, Harcourt Centre, Harcourt Road, Dublin 2, D02 A339, Ireland  
 Tel: +44 (0)1530 510060 Email: info@vitax.co.uk
- 1.4 Emergency Contact:** For the general public, in GB contact NHS 111/NHS 24 by dialling 111, in NI contact your local GP and in RoI call 01 809 2166  
 For product advice, Tel: +44 (0)1530 510060 (Office Hours)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging

This mixture is not classified as dangerous to humans or the environment

**Primary Hazard**

None.

### 2.2 Label Elements

- Signal word** n/a  
**Hazard statements** n/a  
**Precautionary Statements** n/a  
**EUH Statement** EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
 Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

| Chemical Name   | CAS-No./ EINECS-No. | Annex Index or REACH number               | Classification According to 1272/2008:   | SCL M-factor ATE   | Concentration [%] |
|---|---------------------|---|--|--|-------------------|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9          | 613-167-00-5<br>Reg.nr.: 01-2120764691-48 | Acute Tox. 3, H301;<br>Acute Tox. 2, H310;<br>Acute Tox. 2, H330<br>Skin Corr. 1C, H314;<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400;<br>Aquatic Chronic 1, H410<br>Skin Sens. 1A, H317 | Skin Corr. 1C;<br>H314: C ≥ 0.6 %<br>Skin Irrit. 2; H315:<br>0.06 % ≤ C < 0.6 %<br>Eye Dam. 1; H318:<br>C ≥ 0.6 %<br>Eye Irrit. 2; H319:<br>0.06 % ≤ C < 0.6 %<br>Skin Sens. 1A;<br>H317: C ≥ 0.0015 %<br>M (acute) =100<br>M (chronic) =100 | <0.0015           |

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- Inhalation** Remove from source of exposure to fresh air; seek medical attention.
- Skin & Eye exposure** Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.  
 Eyes: Rinse cautiously for several minutes, Remove contact lenses, if present and easy to do, rinse with clean water for 15 minutes. Seek medical attention if symptoms arise or persist.
- Ingestion** Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention if symptoms persist or develop.

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## 4.2 Most important symptoms and effects, both acute and delayed

None known.

## 4.3 Indication of any immediate medical attention and special treatment needed.

Information not available

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## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

### 5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

### 5.3 Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified. Use personal protective equipment -appropriate coveralls and gloves -eye/face protection - appropriate respirator. Avoid contact with skin and eyes

### 6.2 Environmental Precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) contact local water authority and inform the Environment Agency

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material such as sand and transfer to suitable container. Contact specialist waste disposal contractor.

### 6.4 Reference to other sections

No reference necessary

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## SECTION 7. HANDLING AND STORAGE

### 7.1 Precaution for safe handling

Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

### 7.3 Specific end use(s)

No specific information available

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Potassium nitrate:

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 20.8 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 36.7 mg/m<sup>3</sup>

DNEL/DMEL (General population)

Acute - systemic effects, oral 12.5 mg/kg bodyweight

Long-term - systemic effects, inhalation 10.9 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 12.5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.45 mg/l

PNEC aqua (marine water) 0.045 mg/l

PNEC aqua (intermittent, freshwater) 4.5 mg/l

PNEC (STP)

PNEC sewage treatment plant 18 mg/l

### 8.2 Exposure controls

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection.

Respirators – BS approved protection device with P3 filter.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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## 9.1 Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | Liquid              |
| Colour  | brown.              |
| Odour   | slight marine odour |
| Odour threshold                                 | Not available       |
| Melting point                                   | Not applicable      |
| Freezing point                                  | Not available       |
| Boiling point                                   | Not available       |
| Flammability                                    | Not applicable      |
| Explosion limits                                | Not available       |
| Lower explosive limit (LEL)                     | Not available       |
| Upper explosive limit (UEL)                     | Not available       |
| Flash point                                     | Not available       |
| Auto-ignition temperature                       | Not available       |
| Decomposition temperature                       | Not available       |
| pH  | 4-6                 |
| Viscosity, kinematic                            | Not available       |
| Solubility                                      | soluble in water    |
| Partition coefficient n-octanol/water (Log Kow) | Not available       |
| Vapour pressure                                 | Not available       |
| Vapour pressure at 50 °C                        | Not available       |
| Density   | Not available       |
| Relative density                                | 1.12 -1.14          |
| Relative vapour density @ 20°C                  | Not available       |
| Particle size                                   | Not applicable      |
| Particle size distribution                      | Not applicable      |
| Particle shape                                  | Not applicable      |
| Particle aspect ratio                           | Not applicable      |
| Particle aggregation state                      | Not applicable      |
| Particle agglomeration state                    | Not applicable      |
| Particle specific surface area                  | Not applicable      |
| Particle dustiness                              | Not applicable      |

## 9.2 Other Information

|                       |                |
|-----------------------|----------------|
| Explosive properties: | Non-applicable |
| Oxidising properties: | Non-applicable |
| Corrosive to metals:  | Non-applicable |
| Heat of combustion:   | Non-applicable |

## SECTION 10. STABILITY AND REACTIVITY

|  |                                |
|--|--------------------------------|
| <b>10.1 Reactivity</b>                         | Unknown                        |
| <b>10.2 Chemical Stability</b>                 | Stable under normal conditions |
| <b>10.3 Possibility of hazardous reactions</b> | Information not available      |
| <b>10.4 Conditions to avoid</b>                | Extremes of temperature        |
| <b>10.5 Incompatible materials</b>             | None known                     |
| <b>10.6 Hazardous decomposition products</b>   | Possible irritant fumes        |

## SECTION 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects** The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3

### Toxicological information on hazardous ingredients:

#### Potassium nitrate

|                            |   |
|----------------------------|---|
| Acute toxicity:            | Not classified (Based on available data, the classification criteria are not met) |
| LD50 oral rat              | 3750 mg/kg OECD Guideline 405   |
| LD50 dermal rat            | > 5000 mg/kg bw/day OECD Guideline 402  |
| LC50 inhalation rat (mg/l) | > 0,527 mg/l/4h OECD Guideline 403  |
| ATE (oral)                 | 3750 mg/kg  |

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

|                            |                                 |
|----------------------------|---------------------------------|
| LC50 inhalation rat (mg/l) | 0.31 mg/l/4h OECD Guideline 403 |
|----------------------------|---------------------------------|

#### Product

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|   |   |
|---|---|
| Acute toxicity:                                     | Not classified (Based on available data, the classification criteria are not met) |
| Skin corrosion/irritation:                          | Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation:                      | Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation:                  | Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity:                             | Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity:                                    | Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity:                              | Not classified (Based on available data, the classification criteria are not met) |
| Specific target organ toxicity (single exposure):   | Not classified (Based on available data, the classification criteria are not met) |
| Specific target organ toxicity (repeated exposure): | Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard:                                  | Not classified (Based on available data, the classification criteria are not met) |

**11.2 Information on other hazards**  
**Endocrine disrupting properties**

Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Potential Adverse human health effects and symptoms:

Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity**

|   |   |
|---|---|
| <b>Product</b>                              | Not classified as harmful to the environment. |
| Hazard to the aquatic environment (acute)   | Not classified                                |
| Hazard to the aquatic environment (chronic) | Not classified                                |

**Potassium nitrate:**

|  |   |
|--|---|
| Ecology - general: Classification concerning the environment:  | not applicable.   |
| Ecology - water: Mild water pollutant (surface water). Ground water pollutant.                       |   |
| Maximum concentration in drinking water:   | 50 mg/l (nitrate) (Directive 98/83/EC).                       |
| Not harmful to fishes (LC50 (96h)  | >1000 mg/l).  |
| Slightly harmful to invertebrates (Daphnia) (EC50 (48h):   | 100 - 1000 mg/l).   |
| May cause eutrophication. Slightly harmful to plankton (EC50:  | 100 - 1000 mg/l).   |
| <b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b> |   |
| LC50 Fish  | 0.58 mg/l Danio rerio (zebra fish).                           |
| EC50 crustacea   | 1.02 mg/l Daphnia (water flea).                               |
| EC50 72 hrs Algae  | 0.379mg/l EC50 Pseudokirchneriella subcapitata (green algae). |

**12.2 Persistence and degradability**

|  |                           |
|--|---------------------------|
| <b>Product</b>   | Information not available |
| <b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b> |                           |

Persistence and degradability Not readily biodegradable

**12.3 Bioaccumulative potential**

Information not available

**12.4 Mobility in soil**

Information not available

**12.5 Results of PBT and vPvB:**

Contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Endocrine disrupting properties**

Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects**

No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods**

|                          |   |
|--------------------------|---|
| Waste treatment methods: | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|--------------------------|---|

## SECTION 14. TRANSPORT INFORMATION

|  |  |
|--|--|
| <b>14.1 UN number:</b>   | Product is unclassified for transport  |
| <b>14.2 UN proper shipping name:</b>   | Product is unclassified for transport  |
| <b>14.3 Transport hazard:</b>  | Product is unclassified for transport  |
| <b>14.4 Packing group:</b>   | Product is unclassified for transport  |
| <b>14.5 Environmental hazards:</b>   | Product is unclassified for transport. |
| <b>14.6 Special precautions for user:</b>  | Not specified                          |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b> |  |

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Applicable for Maritime bulk transport only. Check with carrier.

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## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

#### EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### National regulations

No additional information available

### 15.2 Chemical Safety Assessment

CSA not undertaken for this material.

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## SECTION 16. OTHER INFORMATION

### Reason for revision:

Replaces version dated September 2022. Sections 9.1 & 11.2 revised.

### Other Hazard Information assigned to individual ingredients, but not carried to final classification:

Acute Tox. 3

Acute toxicity Category 3

Acute Tox.2

Acute toxicity Category 2

Aquatic Acute 1

Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1

Hazardous to the aquatic environment — Chronic Hazard, Category 1

Eye Dam. 1

Serious eye damage, Category 1

Eye Irrit. 2

Serious eye irritation, Category 2

Skin Corr. 1C

Skin corrosion/irritation, Category 1C

Skin Irrit. 2

Skin corrosion/irritation, Category 2

Skin Sens. 1A

Skin sensitisation, Category 1A

H301

Toxic if swallowed

H310

Fatal in contact with skin.

H314

Causes severe skin burns and eye damage

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H318

Causes serious eye damage

H330

Fatal if inhaled

H400

Very toxic to aquatic life

H410

Very toxic to aquatic life with long lasting effects

H411

Toxic to aquatic life with long lasting effects

EUH208

Contains . May produce an allergic reaction

### SDS information:

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.